

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6742 (1972): Shape, size and direction of operation of lever controls on aircraft [TED 14: Aircraft and Space Vehicles]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SHAPE, SIZE AND DIRECTION OF OPERATION OF LEVER CONTROLS ON AIRCRAFT

1. Scope — Recommended shapes, sizes and directions of operation for lever controls on aircraft.

2. General

2.1 The direction of operation of aircraft lever controls shall be in accordance with the principle that forward or upward movement of controls tends to increase the performance of the component or aircraft.

2.2 For aircraft controls other than those covered in 3, the control knobs or handles of the lever shall be of a shape different from those shown.

2.3 Where braking propellers are fitted, operation shall be by pulling the throttle back beyond normal 'Throttle Closed' position to give progressively greater reverse thrust.

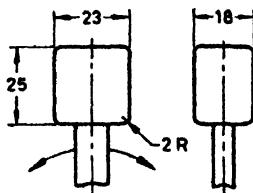
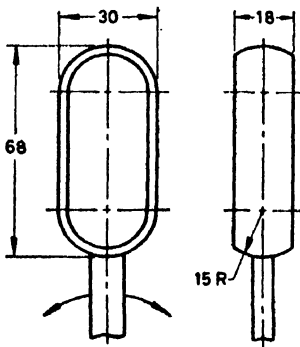
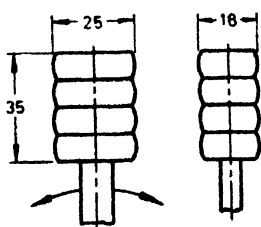
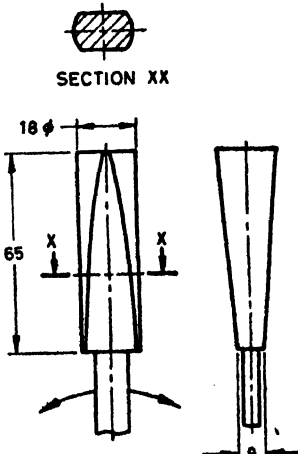
2.4 Operation of a trimming device by levers shall result in movement of the aircraft in the same direction. Operation by rotary control shall be in accordance with 4.

2.5 Only emergency controls shall be coloured red.

3. Shape, Size and Direction of Operation of Lever Controls

Sl No.	Type of Control	Shape and Approximate Size mm	Operation of Control	
			Movement	Result of Movement
1.	Throttle control		Forward	Increased forward thrust
2.	Mixture control		Forward or upward	Rich mixture

(Continued)

SI No.	Type of Control	Shape and Approximate Size mm	Operation of Control	
			Movement	Result of Movement
3.	Engine supercharger control		Forward or upward	Engage high gear
4.	Air Intake control		a) Forward or upward b) Centre c) Aft down	a) Ram (normal) b) Filter c) Hot
5.	RPM control		Forward	High revolutions per minute
6.	Ignition	Timber switch or rotary switch	Upward or clockwise	Ignition on
7.	Fuel shut-off		Forward or upward	Valve open

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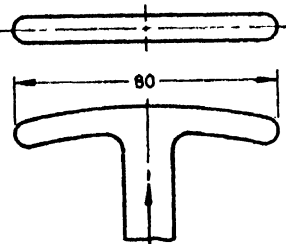
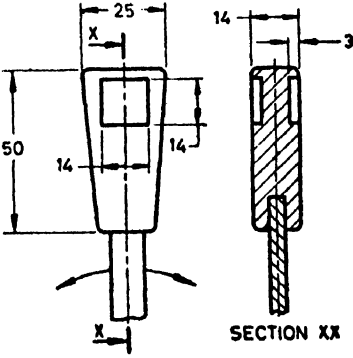
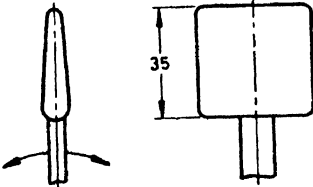
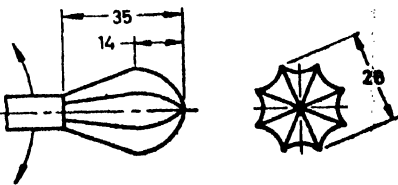
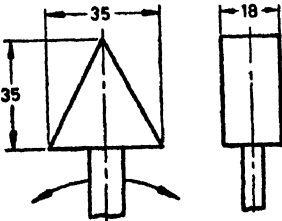
AMENDMENT NO. 1 FEBRUARY 1974
TO
IS : 6742-1972 SHAPE, SIZE AND DIRECTION
OF OPERATION OF LEVER CONTROLS
ON AIRCRAFT

Corrigendum

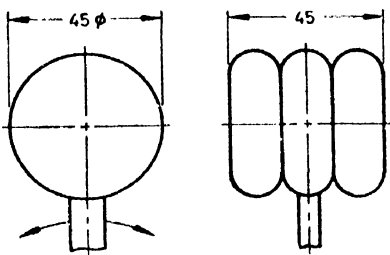
(*Page 2, Serial No. 6, under 'Shape and Approximate Size'*) —
Substitute 'Tumbler Switch' for 'Timber Switch'.

(EDC 74)

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Sl No.	Type of Control	Shape and Approximate Size mm	Operation of Control	
			Movement	Result of Movement
8.	Emergency shut-off		Pull	Shut-off (closed)
9.	Fire extinguisher control			Fire extinguisher in operation
10.	Air brake (any device primarily used to increase the drag of an aircraft at will)		Forward or upward	Flap retracted
11.	Landing flaps control		Forward or upward	Flap retracted
12.	Parachute brake		Backward	Parachute streamed
			Forward	Parachute jettisoned
13.	Spoiler (a device which changes the airflow round and aerofoil with the object of reducing the lift)		Forward or upward	Spoiler retracted

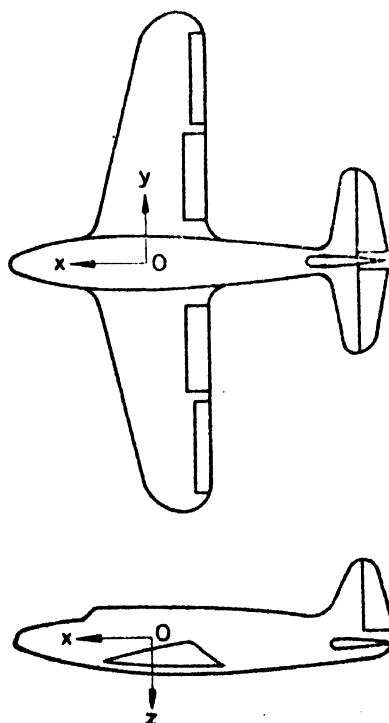
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SI No.	Type of Control	Shape and Approximate Size mm	Operation of Control	
			Movement	Result of Movement
14.	Landing gear control		Forward or upward	Landing gear retracted

4. Direction of Operation of Rotary Controls for Trimming Tabs

SI No.	Type of Control	Mounting Position of Control	Operation of Control	
			Direction of Rotation	Result of Movement
1.	Elevator trimming tab	Rotation axis of the handwheel parallel to the y-axis* of the aircraft (axis along wing span). Vertical hand-wheel.	Forward†	Dive
			Backward†	Climb
2.	Rudder trimming tab	Rotation axis of the handwheel parallel to the z-axis* of the aircraft (vertical axis through centre of gravity). Horizontal handwheel	Each trim control should operate about the appropriate axis of the aeroplane in the same sense as the desired aircraft response about that axis	Right yaw
				Left yaw
3.	Aileron trimming tab	Rotation axis of the handwheel parallel to the x-axis* of the aircraft (axis along the fuselage)	Clockwise	Right roll
			Counterclockwise	Left roll

* Axes x, y and z and the centre of gravity are as shown in the figure below:



† The direction of rotation refers to the upper portion of the handwheel.